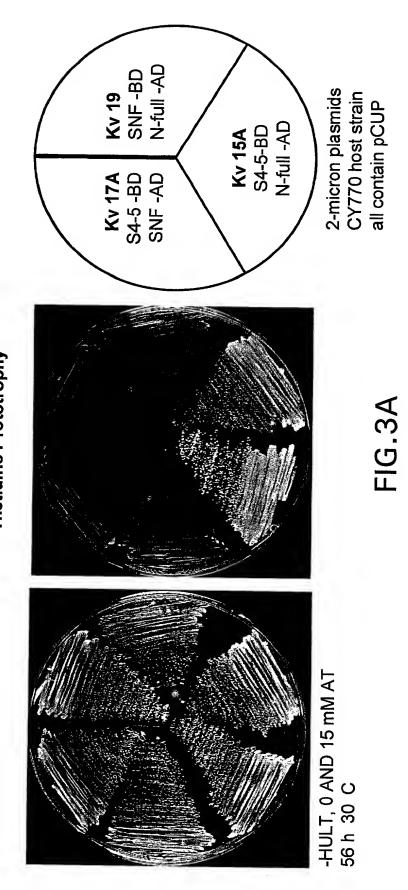
hKv1.1L00P	QILGOTLKASMRELGL
hKv1.2L00P	QILGOTLKASMRELGL
hKv1.3L00P	QILGOTLKASMRELGL
hKv1.5L00P	QILGKTLOASMRELGL
hKv1.6L00P	QILGKTLOASMRELGL
hKv1.4L00P	QILGHTLRASMRELGL
hKv1.4L00P	QTLGHTLRASMRELGL RVLGHTLRASTNEFLL

FIG. 1

hKvβ1N	- MOVSIACTEHNLKSRNGEDRILLSKOSSTAP -
hKvβ1bN	MHLYKPACADIP-SPKLGLPKSSESALKCRW-
hKvβ3N	MHLYKPACADIP-SPKLGLPKISSESALKCRW-
hKv3.4N	MISSVCVSSYRGRKSGNKPPSKTCLKEEMA
hKvβ1CN	-MLAARTGAAGSQISEENTKLRRQSGFSVAG-
hKv1.4N	-MEMAMVSAESS-GCNSHMPYGYAAQARARER

FIG.2

Potassium Channel (Kv 1.4) S4-5 loop / N-terminal (full) interaction **Histidine Prototrophy**



Potassium Channel (Kv 1.4) S4-5 loop / N-terminal (full) interaction **Histidine Prototrophy**

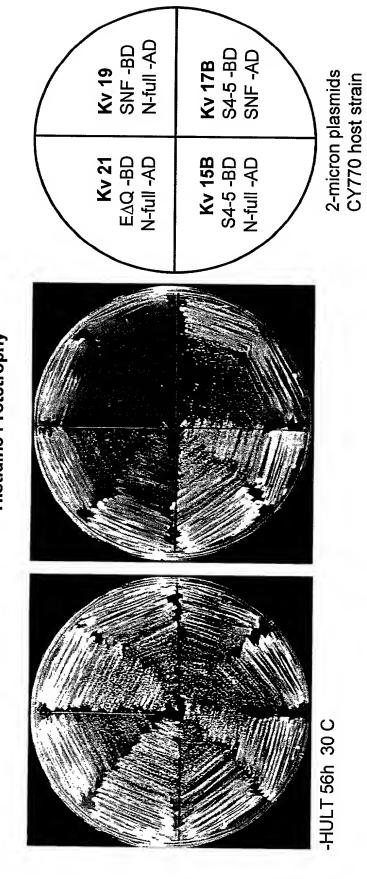
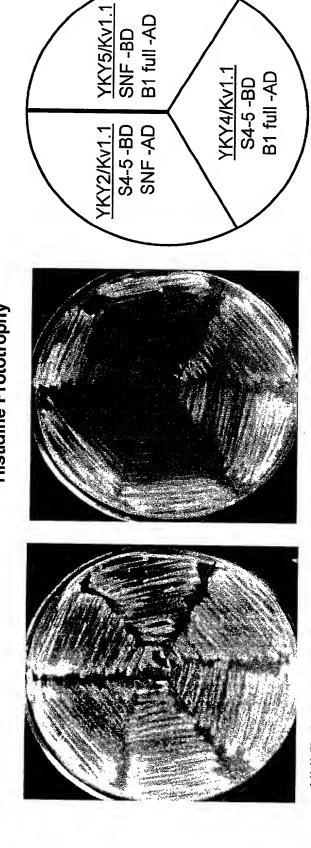


FIG.3B

all contain pCUP

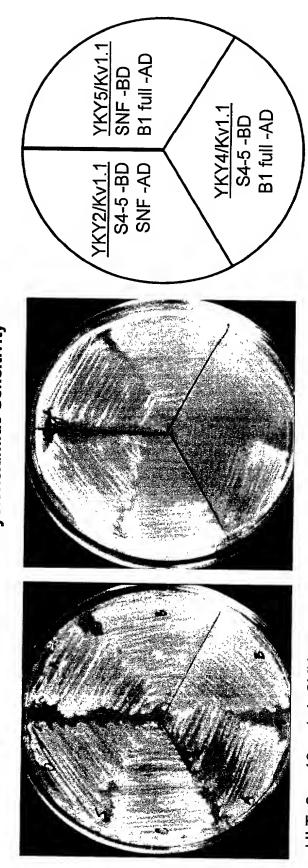
Potassium Channel (Kv 1.1/B1) [S4-5 loop / B1 full length interaction] Histidine Prototrophy



-HULT, 0 or 20 mM AT

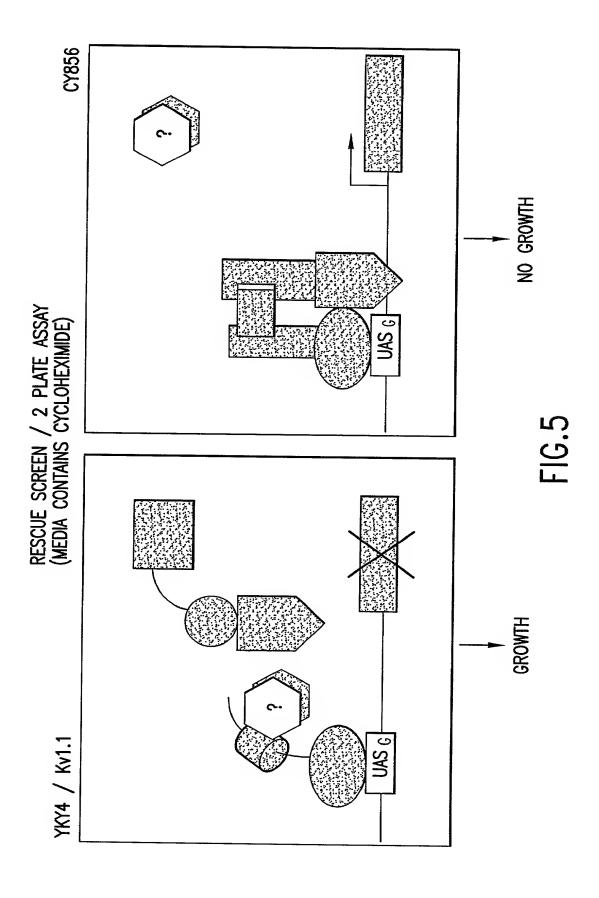
FIG.4A

Potassium Channel (Kv 1.1/B1) [S4-5 loop / B1 full length interaction] **Cycloheximide Sensitivity**

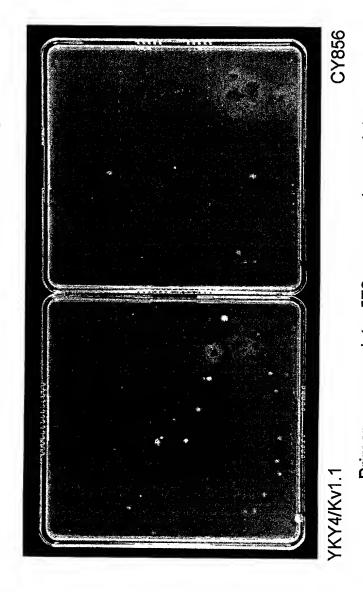


-ULT, 0 or 10 ug/ml CYH

FIG.4B



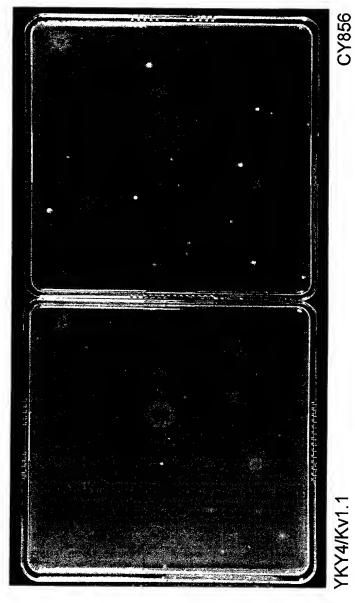
Potassium Channel Inverse-Selection screen [Kv1.1 S4-5 loop / B1 full length interaction]



Primary screen plate; 572 compounds per plate.

FIG.6A

Potassium Channel Inverse-Selection screen [Kv1.1 S4-5 loop / B1 full length interaction]

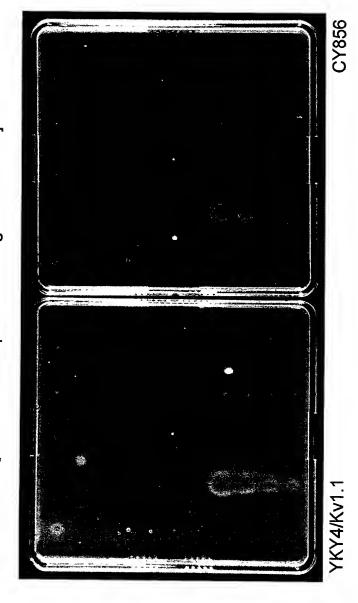


YKY4/Kv1.1

Secondary yeast screen plate; 55 compounds per plate.

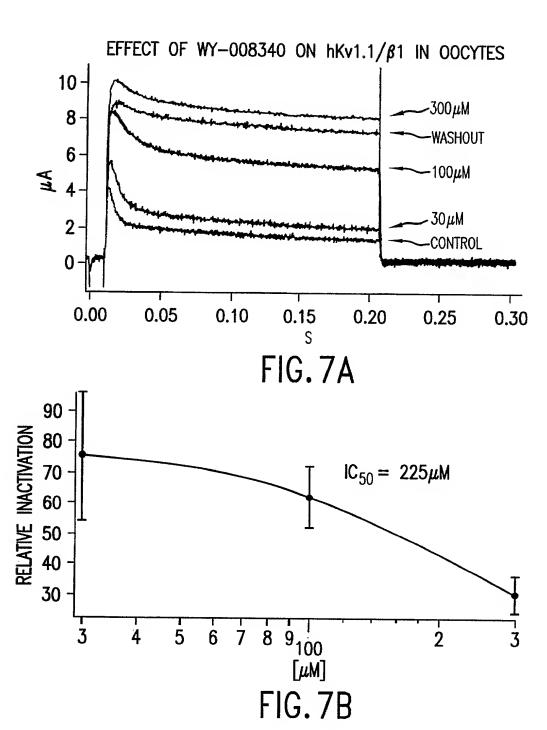
FIG.6B

Potassium Channel Inverse-Selection screen [Kv1.1 S4-5 loop / B1 full length interaction]



Tertiary yeast screen plate; compound titration.

FIG.6C



	REL. INACTIVATION		CURRENT AMPLITUDE	
	MEAN	SEM	MEAN	SEM
CONTROL	100.00	0.00	100.00	0.00
30μM	75.23	20.86	118.40	16.30
100μΜ	61.99	9.67	174.64	16.58
300μM	29.59	5.48	205.53	34.03
WASHOUT	24.90	6.73	188.27	31.18
n = 3,4				<u>'</u>

FIG.7C

